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FILE 'HOME' ENTERED AT 12:04:42 ON 04 JAN 2010

=> fil reg
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL
ENTRY SESSION
0.22 0.22

FILE 'REGISTRY' ENTERED AT 12:04:49 ON 04 JAN 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2010 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 JAN 2010 HIGHEST RN 1200115-43-0 DICTIONARY FILE UPDATES: 3 JAN 2010 HIGHEST RN 1200115-43-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> Uploading H:\STN\10590973\2.str

chain nodes : 7 8 9 11 12 13 14 23 27 28 ring nodes : 1 2 3 4 5 6 15 16 17 18 19 20 21 22 chain bonds : 3-11 7-8 7-9 11-12 12-13 12-14 14-27 19-28 21-23 27-28ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 15-16 15-19 16-17 17-18 17-20 18-19 18-2220-21 21-22 exact/norm bonds : 3-11 7-8 7-9 11-12 12-13 12-14 14-27 15-16 15-19 16-17 17-18 17-2018-19 18-22 19-28 20-21 21-22 21-23 27-28 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6 isolated ring systems : containing 15:

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 20:Atom 21:Atom 22:Atom 23:CLASS 27:CLASS 28:CLASS

L1 STRUCTURE UPLOADED

=> d L1 HAS NO ANSWERS L1 STR

$$\begin{array}{c} O \\ N \\ N \\ \end{array}$$

Structure attributes must be viewed using STN Express query preparation.

=> s 11 full FULL SEARCH INITIATED 12:05:08 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 88 TO ITERATE

100.0% PROCESSED 88 ITERATIONS 19 ANSWERS

SEARCH TIME: 00.00.01

L2 19 SEA SSS FUL L1

=>

Uploading $H:\STN\10590973\3.str$

chain nodes :
7 8 9 11 20 24 25 28 29 30 31 32 33 34 35 36 37 47

ring nodes :
1 2 3 4 5 6 12 13 14 15 16 17 18 19

chain bonds :
3-47 7-8 7-9 11-24 11-47 16-25 18-20 24-25 28-29 29-30 31-32 31-33
34-35 36-37

ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 13-14 14-15 14-17 15-16 15-19
17-18 18-19
exact/norm bonds :
3-47 7-8 7-9 11-24 11-47 12-13 12-16 13-14 14-15 14-17 15-16 15-19
16-25 17-18 18-19 18-20 24-25 28-29 29-30 31-32 31-33
exact bonds :

34-35 36-37 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6 isolated ring systems : containing 12 :

G1: [*1-*2], [*3-*4], [*5-*6], [*7-*8]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:CLASS 24:CLASS 25:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 35:CLASS 36:CLASS 37:CLASS 47:CLASS

L3 STRUCTURE UPLOADED

=> d

L3 HAS NO ANSWERS
L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 13 full

FULL SEARCH INITIATED 12:05:32 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 383 TO ITERATE

100.0% PROCESSED 383 ITERATIONS 27 ANSWERS

SEARCH TIME: 00.00.01

L4 27 SEA SSS FUL L3

=> file caplus

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
382.59
382.81

FILE 'CAPLUS' ENTERED AT 12:05:37 ON 04 JAN 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 4 Jan 2010 VOL 152 ISS 2
FILE LAST UPDATED: 3 Jan 2010 (20100103/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 14 L5 12 L4

=> d ibib hitstr 1-12

L5 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2008:1399333 CAPLUS DOCUMENT NUMBER: 149:572823 149:57:2823
Novel hydrazone-based and oxime-based fluorescent and chromophoric/pro-fluorescent and pro-chromophoric reagents and linkers
Schwartz, David A.; Mendoza, Leopoldo
Solulink, Inc., USA
PCT Int. Appl., 93pp.
CODEN: PIXXD2
Fatent TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE . English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE AFFLICATION NO.

20081120 W0 2007-US11529 20070514
AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GT, HN, HR, HU, ID, II, IN, IS, JF, KE, KG, NN, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MY, MZ, NA, NG, NI, NO, NZ, CM, PG, PH, PL, PT, SD, SE, SG, SK, SL, SM, SV, SY, IJ, TM, TN, TR, US, UZ, VC, VN, ZA, ZM, ZW
CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, CM, GA, GN, GQ, GN, ML, MR, NE, SN, TD, TG, BM, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, RU, TJ, TM

WO 2007-US11529 20070514 W0 2008140452
W1 AZ, AG,
CH, CN,
GD, GE,
KN, KP,
MK, MN,
RO, RS,
TT, TZ,
RW1 AT, BE,
IS, IT,
BJ, CF,
GH, GM,
BY, KG, A1 AM, CR, GM, KZ, MX, SC, UG, CH, LU, CI, LS, MD, AL, CO, GH, KR, MW, RU, UA, BG, LT, CG, KE, BY, KG, KS PRIORITY APPLN. INFO.: WO 2007-US11529 OTHER SOURCE(S): IT 1084743-52-1 MARPAT 149:572823 1US4 /43-52-1
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(hydrazone-based and oxime-based fluorescent and
chromophoric/pro-fluorescent and pro-chromophoric reagents and

L5 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2006:1279264 CAPLUS

DOCUMENT NUMBER:

LUS COPYRIGHT 2010 ACS on STN
2006:1279264 CAPLUS
146:23080
Method for labelling biological molecules in a
biological sample
Bernal-Mendez, Eloy; Laayoun, Ali; Menou, Lionel
Biomerieux, Fr.
PCT Int. Appl., 53pp.
CODEN: PIXXD2
PAtent
French
1 INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

Absolute stereochemistry.
Double bond geometry unknown.

KIND DATE EP 1886141 A1 20080213 EP 2006-764700 20060531
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
JP 2008541751 T 20081127 JP 2008-514145 20060531
US 20090215188 A1 20080730 CN 2006-80027983 20080330
CN 101233410 A 20080730 CN 2006-80027983 20080330 PRIORITY APPLN. INFO.: FR 2005-51452 A 20050601 WO 2006-FR1228 W 20060531

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

IT 475114-69-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(method for labeling biol. mols. in biol. sample)

RN 475114-69-3 CAPLUS
CN 1,3-Benzenedicarboxamide, 5-(diazomethyl)-N1,N3-bis[19-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-rthieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxa-14-azanonadec-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 1 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-A

REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 2 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-A

PAGE 1-E

PAGE 1-C

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

L5 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2006:333374 CAPLUS
DOCUMENT NUMBER: 144:325853 144.325853
Single-step method for labeling and purifying nucleic acids in biological samples
Laayoun, Ali, Menou, Lionel; Ginot, Frederic Biomerieux, Fr.
PCT Int. Appl., 59 pp.
CODEN: PIXXD2
Patent TITLE: INVENTOR (S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	ENT 1				KIN		DATE				LICA			ATE			
WO	WO 2006018572 WO 2006018572				A2		20060223 20060831						20050721				
	W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB	, BG	, BR,	BW,	BY,	BZ,	CA,	CH,
													EG,				
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS	, JF	, KE,	KG,	KM,	KP,	KR,	KZ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD	, MG	, MK,	MN,	MW,	MX,	MZ,	NA,
		NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT	, RC	, RU,	SC,	SD,	SE,	SG,	SK,
					TJ,	TM,	TN,	TR,	TT,	TZ	, UA	, UG,	US,	UZ,	VC,	VN,	YU,
			ZM,														
	RW:												FR,				
													SI,				
													SN,				
								SD,	SL,	SZ	, TZ	, UG,	ZM,	ZW,	AM,	ΑZ,	BY,
					RU,												
	2873				A1				-5163			0040					
	2005								AU 2005-273742								
										EP	2005	05-792074			2	0050	721
EP	1778						2008										
	R:												FR,				IE,
													SE,				
	1010				A								30012				
JP 2008507263 T AT 419264 T ES 2320572													98				
	2320				Т.								74				
													74				
US 20080233632							2008	0925					28			0070	
RIORITY APPLN. INFO.:										FR	2004	-5163	32		A 2	0040	123
										D.T.O.	2005	EDEC	601		r.r o	0050	701

ANSWER 3 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-C

REFERENCE COUNT:

L5 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.

475114-69-3 CAPLUS 1,3-Benzenedicarboxamide, 5-(diazomethyl)-N1,N3-bis[19-[(3as,4s,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxa-14-azanonadec-1-yl]- (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

LUS CORYRIGHT 2010 ACC on STR 2005:1048472 CAPLUS 143:340586 Aryldiazoalkane reagents for labeling of nucleic ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: acids on phosphates and their use in detection of nucleic acids
Laayoun, Ali; Bernal, Mendez Eloy
Biomerieux, Fr.
Fr. Demande, 52 pp.
CODEN: FRXXBL
Patent
1 INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

						-									DAME				
	PATENT				KIN.														
	FR 2868				FR 2004-50600														
						AII 2	005-		20050324										
	CA 2558	A1		2005	1006		CA 2	005-		20050324									
	WO 2005	A1 20051006				WO 2	005-1	FR50	192										
	W: AE, AG, AL,				AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,		
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,		
		GE,																	
		LK,																	
		NO,																	
ZW		SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,		
2W	DLI.	BW,	CII	CN/	1210		3.47.7	ME	313	an.	CT.	C.F.	me	IIC	ra.	P1.1	224		
	KW:	AZ,																	
		EE,																	
		RO.																	
		MR,					,	,	,	,	,	,	,	,	/	,	,		
	EP 1727						2006	1206		EP 2	005-	7396	60		21	0050	324		
	R:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,		
		IS,	IT,	LI,	LT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR				
	CN 1938	329			A		2007	0328		CN 2	005-	8000	9785		21	0050	324		
INSTANT	JP 2007	53002	4	****	T	****	2007	1101		JP 2	007-	5044	55	****	2	0050	324		
	US 2008				A1	****	2008	0207	*****	US 2	006-	5909	73	www		0060			
PRIC	ORITY APP	LN. I	NFO.	:						FR 2	004-	5060	0	1	A 21	0040	326		

WO 2005-FR50192 W 20050324

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 143:340586
IT 865724-06-7P 865724-07-8P
RL: ARG (Analytical reagent use); SFN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (preparation and anal. use of; aryldiazoalkane reagents for labeling of

nucleic acids on phosphates and their use in detection of nucleic acids)
865724-06-7 CAPLUS
Butanediamide, Nl-[2-[[2-[[5-[(3aS, 4S, 6aR)-hexahydro-2-oxo-1H-thieno[3, 4-d]imidazol-4-yl]-loxopentyl]amino]ethyl]amino]ethyl]amino]ethyl]-N4-[3-(1-hydrazinylideneethyl)phenyl]- (CA INDEX NAME)

L5 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.

Double bond geometry unknown.

PAGE 1-A

$$\begin{array}{c|c} H & H \\ \hline N & R \\ \hline S & S \\ \hline H & H \\ \end{array}$$

PAGE 1-B

RN 865724-07-8 CAPLUS
CN Butanediamide,
N1-[3-(1-diazoethyl)phenyl]-N4-[2-[[2-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]ethyl]amino]ethyl]amino]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

ANSWER 4 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

OS.CITING REF COUNT: RECORD

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

REFERENCE COUNT:

(1 CITINGS)
THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L5 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B

IT

475114-11-5P 475114-15-9P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reactions of; aryldiazoalkane reagents for labeling

nucleic acids on phosphates and their use in detection of nucleic

nucleic acids on phosphates and their use in detection of nucleic acids)
475114-11-5 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

475114-15-9 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX

Absolute stereochemistry.

L5 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:105978 CAPLUS
DOCUMENT NUMBER: 142:368310
TITLE: Biotin-phenyldiazomethane conjugates as labeling
reagents at phosphate in mone and polynucleotides
AUTHOR(S): Bourget, Cecile; Trevisiol, Emmanuelle; Bridon,
Isabelle; Kotera, Mitsuharu; Lhomme, Jean; Laayoun,
Ali
CORPORATE SOURCE: LEDSS-UMR5616 associe au CNRS, BP53, Universite
Joseph

Fourier, Grenoble, 38041, Fr.
Bioorganic & Medicinal Chemistry (2005), 13(5), 1453-1461
CODEN: BMECEP; ISSN: 0968-0896
Elsevier Ltd.
Journal
English
CASERACT 142:368310
475114-17-1P 475114-18-2P

PUBLISHER: CDEN: RMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGURGE: English

TH 475114-16-0P 475114-17-1P 475114-18-2P

475114-65-9P

R1: ARG (Analytical reagent use); SFN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(biotin-phenyldiazomethane conjugates as labeling reagents at phosphate

(biotin-phenyldiazomethane conjugates as labeling reagents at phosphate

in mono and polynucleotides for use in microarray)

RN 475114-16-0 CAFLUS

RN 1H-Thieno [3,4-4] imidazole-4-pentanamide,
N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

475114-17-1 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX

NAME)

Absolute stereochemistry.

ANSWER 5 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

475114-18-2 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

475114-65-9 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry.

475114-12-6P 475114-13-7P 475114-14-8P 475114-64-8P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

ANSWER 5 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 475114-64-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-,
(3aS,445,6aR)(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

NH2

OS.CITING REF COUNT: RECORD

REFERENCE COUNT:

FORMAT

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

(1 CITINGS)
THERE ARE 27 CITED REFERENCES AVAILABLE FOR

REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE

ANSWER 5 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued (Reactant or reagent) (biotin-phenyldiazomethane conjugates as labeling reagents at pnate
in mono and polynucleotides for use in microarray)
475114-12-6 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N[4-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

(Continued)

Absolute stereochemistry.
Double bond geometry unknown.

475114-13-7 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L5 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2003:714486 CAPLUS

DOCUMENT NUMBER: TITLE:

AUTHOR(S):

LUS COPYRIGHT 2010 ACS on STN
2003:714486 CAPLUS
140:351231
Universal Labeling Chemistry for Nucleic Acid
Detection on DNA-Arrays
Bernal-Mendez, E.; Tora, C.; Sothier, I.; Kotera, M.;
Troesch, A.; Laayoun, A.
BioMerieux, Advanced Technology, Marcy l'Etoile,
F-69280, Fr.
Nucleosides, Nucleotides & Nucleic Acids (2003),
22(5-8), 1647-1649
CODEN: NNNAFY; ISSN: 1525-7770
Marcel Dekker, Inc.
Journal CORPORATE SOURCE:

SOURCE:

COEM: NNAMFY, ISSN: 1525-7770

PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 475114-15-9

RLi ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(universal labeling chemical for nucleic acid detection on DNA-arrays)

RN 475114-15-9 CAPIUS

N 18-Thieno[3,4-d]imidazole-4-pentanamide,

NAME)

(CA INDEX

Absolute stereochemistry.

OS .CITING REF COUNT: THERE ARE 7 CAPLUS RECORDS THAT CITE THIS

(7 CITINGS)

(/ Clings) THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L5 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2003:714244 CAPLUS

DOCUMENT NUMBER: 140:351230

ACCESSION NUMBER: 2003;714244 CAPLUS
DOCUMENT NUMBER: 140:351230
TITLE: Labeling During Cleavage of Nucleic Acids for Their
Detection on DNA Chips
AUTHOR(S): Laayoun, A.; Sothier, I.; Menou, L.; Bernal-Mendez,
E.; Kotera, M.; Bourget, C.; Trevisiol, E.; Lhomme,
J.; Troesch, A.

CORPORATE SOURCE: BioMerieux, Advanced Technology, Marcy l'Etoile,
F-69280, Fr.
Nucleosides, Nucleotides & Nucleic Acids (2003),
22(5-8), 649-652
CODEN: NNNAFY; ISSN: 1525-7770
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
Tt 475114-15-9, meta-BioPMDAM
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
chips)
RN 475114-15-9 CAPLUS
CN 1H-Thieno(3,4-d)imidazole-4-pentanamide,
N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX
NAME)

Absolute stereochemistry.

OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS 1

(1 CITINGS)
THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

APPLICATION NO. DATE

2 20021114 W0 2002=FR1542 20025503

AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, LL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LK, BA, MD, MG, MK, MN, MM, MX, NO, NZ, CM, PH, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, VM, YU, ZA, ZM, ZW

MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, MK, NI, SN, TD, TG
20021108 FR 2001=6039 20010504
20021114 CA 2002=313026 200205503 WO 2002090584
WO 2002090584
WO 2002090584
WO AE, AG,
CO, CR,
GM, HR,
LS, LT,
PL, PT,
UA, UG,
RW, GH, GM,
KG, KZ,
GR, IE,
GN, GG, GG, A2 A3 AM, CZ, ID, LV, RU, UZ, LS, RU, LU, AL, CU, HU, LU, RO, US, KE, MD, IT, GW, GN, GQ, FR 2824335 CA 2444926 AU 2002313026 ML, A1 A1 A1 B2 FR 2001-6039 CA 2002-2444926 AU 2002-313026 20020503 20020503 20021118 AU 2002313026 US 20030143555 US 7060441 EP 1383925 20070628 20030731 20060613 US 2002-137460 A1 B2 20020503 EP 2002-738211 20020503 A2 20040128

ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

KIND DATE

137:364361

2002:869122 CAPLUS

Methods for fragmenting and labeling nucleic acids diagnosis of diseases Bourget, Cecile; Kotera, Mitsuharu; Lhomme, Jean; Trevisiol, Emmanuelle; Laayoun, Ali; Tora,

Sothier, Isabelle
Bio Merieux, Fr.; Universite Joseph Fourier (Grenoble
1); Centre National De La Recherche Scientifique
PCT Int. Appl., 161 pp.
CODEN: PIXXD2
Fatent
French
1

APPLICATION NO.

DATE

ACCESSION NUMBER:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO.

DOCUMENT NUMBER:

INVENTOR (S):

Christelle: PATENT ASSIGNEE(S): SOURCE

TITLE:

EP 1383925 в1 20060920 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2004527258 T 20040909 JP 2002-587643 20020503 CN 2002-811492 CN 1639356 CN 1325659 20050713 20020503 20070711 20020503 20061015

AT 2002-738211 ES 2002-738211 AT 340269 ES 2272723 T3 20070501 20020503 HK 1062033 20070427 HK 2004-105111 20040713 FR 2001-6039 PRIORITY APPIN. INFO.: a 20010504

US 2001-310273P P 20010807 WO 2002-FR1542 W 20020503

L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
ASSIGMMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S):

IT 475114-17-1P
RLi ARG (Analytical reagent use); SFN (Synthetic preparation); ANST
(Analytical study); PREP (Preparation); USES (Uses)
(methods for fragmenting and labeling nucleic acids for diagnosis of
diseases)
RN 475114-17-1 CAPLUS
CN 1H-Thieno (3, 4-d) imidazole-4-pentanamide,
N-[2-(1-diazoethyl) phenyl]hexahydro-2-oxo-, (3aS, 4S, 6aR)- (CA INDEX
NAME)

Absolute stereochemistry.

475114-12-6P 475114-15-9P 475114-27-3P 475114-38-6P 475114-13-7P 475114-16-0P 475114-28-4P 475114-11-5P IT 475114-14-8P 475114-18-2P 475114-31-9P 475114-41-1P 475114-42-2P 475114-45-5P 475114-46-6F 475114-64-8P 475114-65-9P 475114-69-3P 475270-58-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (methods for fragmenting and labeling nucleic acids for diagnosis of

diseases)

TABLE NAME (A STATE OF THE ACT OF

Absolute stereochemistry.
Double bond geometry unknown

475114-12-6 CAPLUS 1H-Thieno[3,4-d]imidazole-4-pentanamide,

EXR: Michael Barker

ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on SIN (Continued) N-[4-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS, 4S, 6aR)- (CAINDEX NAME)

475114-13-7 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown

475114-14-8 CAPLUS 1H-Thieno[3,4-d]imidazole-4-pentanamide, Nn-[3-(hydrazinylidenephenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)-(CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

475114-15-9 CAPLUS

ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX)

Absolute stereochemistry.

475114-16-0 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX

Absolute stereochemistry.

475114-18-2 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B

RN 475114-31-9 CAPLUS
CN Butanediamide,
N1-[3-(1-diazoethyl)phenyl]-N4-[19-[(3as,4s,6ar)-hexahydro-

2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxa-14-azanonadec-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

475114-38-6 CAPLUS 3,6,9,12-Tetraoxa-15-azaeicosanamide,

N-[3-(1-diazoethyl)phenyl]-20-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-16-oxo- (CA INDEX NAME)

Absolute stereochemistry.

EXR: Michael Barker

L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

475114-27-3 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[15-[4-(hydrazonomethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A

PAGE 1-B

475114-28-4 CAPLUS
1H-Thieno[3,4-d]lmidazole-4-pentanamide,
N-[15-[4-(diazomethyl)phenyl]-15-0x0-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-0xo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) PAGE 1-A

PAGE 1-B

475114-41-1 CAPLUS
1H-Thieno [3,4-d]imidazole-4-pentanamide,
N-[15-[4-(1-hydrazonoethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B

475114-42-2 CAPLUS
1H-Thieno [3, 4-d]imidazole-4-pentanamide,
N-[15-[4-(1-diazoethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B

475114-45-5 CAPLUS
1H-Thieno [3, 4-d]imidazole-4-pentanamide,
N-[15-[3-(hydrazonomethyl)phenyl]-15-oxo-4, 7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B

RN 475114-64-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-,
(3aS,4S,6aR)(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

475114-65-9 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry.

475114-69-3 CAPLUS 1,3-Benzenedicarboxamide, 5-(diazomethyl)-N1,N3-bis[19-[(3aS,4S,6aR)-

EXR: Michael Barker

L5 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN Absolute stereochemistry.

Double bond geometry unknown. (Continued)

PAGE 1-A

PAGE 1-B

475114-46-6 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[15-[3-(diazomethyl)phenyl]-15-0x0-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-0x0-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxa-14-azanonadec-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

PAGE 1-A

PAGE 1-C

475270-58-7 CAPLUS 3,6,9,12-Tetraoxa-15-azaeicosanamide, 20-[(3as,4,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-y1]-N-[3-(1-hydrazinylideneethyl)phenyl]-16-oxo- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-A

OS.CITING REF COUNT: THERE ARE 4 CAPLUS RECORDS THAT CITE THIS

(4 CITINGS)
THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

WO 2002090319
W: AE, AG,
CO, CR,
GM, HR,
LS, LT,
PL, PT,
UA, UG,
CY, DE,
RF, BGH, GM,
CY, DE,
RF, B24323
FR 2824323
FR 2824323
AU 2002314227
AU 2002314227 A1 AM, CZ, ID, RU, UZ, LS, ES, CG, A1 B1 A1 B2 CA 2002-2444918 AU 2002-314227 20021118 20020503 AU 2002314227 US 20030186448 US 7338805 EP 1383732 20080320 20031002 US 2002-137454 20020503 A1 B2 20080304 EP 2002-740788 20020503 Α1 20040128 R: AT, BE, CH, DE, DK, IE, SI, LT, LV, FI, CN 1518536 A ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, RO, MK, CY, AL, TR 20040804 CN 2002-812490 20020503 CN 100509761 JP 2005502027 20090708 JP 2002-587401 20020503 20050120 JP 2009137954 20090625 JP 2008-301646 FR 2001-6040 PRIORITY APPLN. INFO.: A 20010504 US 2001-310241P P 20010807

ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

KIND DATE

AL, CU, HU, LU, RO, US, KE, DK, CF,

137:371372

137:371372
Indicator dyes, their production and their use in detecting biological molecules
Bourget, Cecile; Lhomme, Jean; Laayoun, Ali; Kotera, Mitsuharu; Trevisiol; Emmanuelle; Menou, Lionel; Bernal Mendez, Eloy
Bio Merieux, Fr.; Universite Joseph Fourier (Grenoble 1); Centre National De La Recherche Scientifique PCT Int. Appl., 219 pp.
CODEN: PIXXD2

APPLICATION NO.

JP 2002-587401

WO 2002-FR1543

20020503 20020503 CA, CH, CN, GD, GE, GH, LC, LK, LR, NZ, OM, PH, TR, TT, TZ,

ZW, AT, BE, CH, NL, PT, SE, TR, NE, SN, TD, TG 20010504

A3 20020503

W 20020503

ACCESSION NUMBER: DOCUMENT NUMBER:

TITLE: INVENTOR (S): PATENT ASSIGNEE(S):

SOURCE DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO.

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): IT 475114-11-5P 475114-14-8P MARPAT 137:371372 475114-12-6P 475 475114-27-3P 475 475114-13-7P

ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 475114-45-5P 475114-64-8P 475114-69-3P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation);

(Reactant or reagent)
(intermediate; in prodn. of indicator dyes for biomols. and nucleic acids)
475114-11-5 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown

475114-12-6 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

475114-13-7 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-h)drazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

475114-14-8 CAPLUS 1H-Thieno[3,4-d]imidazole-4-pentanamide, Nn=[3-(hydrazinylidenephenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)-(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

475114-27-3 CAPLUS 1H-Thieno[3,4-d]imidazole-4-pentanamide,

N-[15-[4-(hydrazonomethyl)]phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A

(CH₂)₃

L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B

475114-41-1 CAPLUS
1H-Thieno[3, 4-d] imidazole-4-pentanamide,
N-[15-[4-(1-hydrazonoethyl)phenyl]-15-0x0-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-0x0-, (3a3,45,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A

PAGE 1-B

475114-45-5 CAPLUS 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[15-[3-(hydrazonomethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

PAGE 1-C

475114-15-9P 475114-18-2P 475114-38-6P 475114-16-0P 475114-28-4P 475114-42-2P 475114-17-1P 475114-31-9P 475114-46-6P

475114-38-6P 475114-42-2P 475114-46-6P 475114-65-9P RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (production of indicator dyes for biomols. and nucleic acids) 475114-15-9 CAPLUS H-Thieno[3, 4-d]imidazole-4-pentanamide, N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS, 4S, 6aR)- (CA INDEX

Absolute stereochemistry.

EXR: Michael Barker

L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN Double bond geometry unknown. (Continued)

PAGE 1-A

PAGE 1-B

RN 475114-64-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-,
(3aS,4s,6aR)(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

475114-69-3 CAPLUS
1,3-Benzenedicarboxamide, 5-(diazomethyl)-N1,N3-bis[19-[(3as,45,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxa-14-azanonadec-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

475114-16-0 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX

Absolute stereochemistry.

475114-17-1 CAPLUS
1H-Thieno [3, 4-d] imidazole-4-pentanamide,
[2-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS, 4S, 6aR)- (CA INDEX NAME)

Absolute stereochemistry.

475114-18-2 CAPLUS
1H-Thieno [3,4-d]imidazole-4-pentanamide,
N-[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

475114-28-4 CAPLUS 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[15-[4-(diazomethyl)phenyl]-15-0x0-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-0xo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B

475114-31-9 CAPLUS

CN Butanediamide, N1-[3-(1-diazoethyl)phenyl]-N4-[19-[(3as, 4s, 6aR)-hexahydro-

2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-15-oxo-4,7,10-trioxa-14-azanonadec-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

475114-38-6 CAPLUS 3,6,9,12-Tetraoxa-15-azaeicosanamide,

N-[3-(1-diazoethyl)phenyl]-20-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-16-oxo- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B

475114-42-2 CAPLUS
1H-Thieno [3,4-d]imidazole-4-pentanamide,
N-[15-[4-(1-diazoethyl)phenyl]-15-oxo-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

475114-46-6 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[15-[3-(diazomethyl)phenyl]-15-0x0-4,7,10-trioxa-14-azapentadec-1-yl]hexahydro-2-0xo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

475114-65-9 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry.

475114-24-0
RL: TEM (Technical or engineered material use); USES (Uses)
(production of indicator dyes for biomols. and nucleic acids)
475114-24-0 CAPLUS
1H-Thieno [3,4-d-1]imidazole-4-pentanamide,
N-[2-(diazoethyl)-5-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

L5 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

OS.CITING REF COUNT: THERE ARE 4 CAPLUS RECORDS THAT CITE THIS

(4 CITINGS)
THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 123:34197a.34200a TITLE Fluorescence detection of DNA using a novel substrate, 4-(4-hydroxyphenylcarbamoyl)butanoic acid Shiqa, Masanobu; Sasamoto, Kazumi; Aoyama, Masaaki; Takaqi, Makoto; Ueno, Kelyu Dojindo Laboratories, Tabaru Mashiki, Kumamoto, 861-22, Japan Analytical Sciences (1995), 11(4), 591-5 CODEN: ANSCEN; ISSN: 0910-6340 Japan Society for Analytical Chemistry Journal English peroxidase AUTHOR (S): CORPORATE SOURCE: SOURCE

CODEN: ANSCEN; ISSN: 0910-6340

PUBLISHER: Japan Society for Analytical Chemistry

DOCUMENT TYPE: Journal

LANSUAGE: English

T 151261-26-6

RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

(fluorescence detection of DNA using a novel peroxidase substrate,

4-(4-hydroxyphenylcarbamoyl)butanoic acid)

RN 151261-26-6 CAPLUS

CN 1H-Thieno(3,4-4]Imidazole-4-pentanamide,

N-[6-[[4-(1-diazoethyl)phenyl]limino]-6-oxohexyl]hexahydro-2-oxo-,

[3aS-(3aa,4β,6aa)]- (9CI) (CA INDEX NAME)

ANSWER 10 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1995:745161 CAPLUS

123:192722

ACCESSION NUMBER:

1 OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

(1 CITINGS)

ACCESSION NUMBER:

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

ANSWER 11 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1995:197115 CAPLUS
MENT NUMBER: 122:27005
INNAL REFERENCE NO.: 122:5253a,5256a
Detection of oxidation products in individual neurons
by fluorescence microscopy
OR(S): Harris, Marni E.; Carney, John M.; Hua, Duy H.;
Leedle, Robert A.
CORATE SOURCE: College of Medicine, University of Kentucky,
Lexington, KY, 40536-0084, USA
Experimental Neurology (1994), 129(1), 95-102
CODEN: EXNEAC; ISSN: 0014-4886
UNGE: UNGE: Under the product of the

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

COEN: EXNEAC; ISSN: 0014-4886

DOCUMENT TYPE: Journal
LANGUAGE: English

IT 159661-00-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BUU
(Biological use, unclassified); BIOL (Biological study); PROC (Process);

USES (Uses)

(detection of oxidation products in individual neurons by fluorescence

microscopy)
microscopy)
microscopy)
microscopy
microsco

Absolute stereochemistry.

OS.CITING REF COUNT: THERE ARE 9 CAPLUS RECORDS THAT CITE THIS (9 CITINGS)

ANSWER 12 OF 12 CAPLUS COPYRIGHT 2010 ACS ON STN
SSION NUMBER: 1993:644871 CAPLUS
MENT NUMBER: 119:4244871
LIP:43563a, 43566a
Synthesis of a novel biotin derivative that bears a diazo group as the reactive site
OR(S): Shiga, Masanobu; He, Pingang; Sagara, Fumio; Ueno, Keihei; Sasamoto, Kazumi
ORATE SOURCE: Dojindo Lab., Kumamoto, 861-22, Japan
Analytical Sciences (1993), 9(4), 553-6
CODEN: ANSCEN; ISSN: 0910-6340
JOURNAIL UNGE: English
R SOURCE(S): CASREACT 119:244871 ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:

AUTHOR(S):

CORPORATE SOURCE:

IT 151261-25-5P

Absolute stereochemistry.
Double bond geometry unknown.

OS.CITING REF COUNT: RECORD

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS

(2 CITINGS)

L5 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

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* * * * * * * * * * * * * * * STN Columbus

FILE 'HOME' ENTERED AT 11:50:12 ON 04 JAN 2010

=> file req COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.22 0.22

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 JAN 2010 HIGHEST RN 1200115-43-0 DICTIONARY FILE UPDATES: 3 JAN 2010 HIGHEST RN 1200115-43-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

Uploading H:\STN\10590973\1.str

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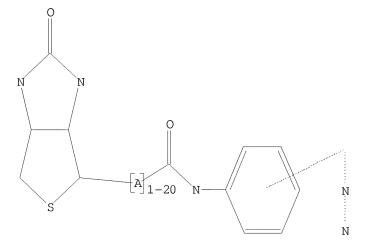
chain nodes : 7 8 9 11 12 13 14 23 ring nodes : 1 2 3 4 5 6 15 16 17 18 19 20 21 22 chain bonds : 3-11 7-8 7-9 11-12 12-13 12-14 14-19 21-23 ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 15-16 15-19 16-17 17-18 17-20 18-19 18-2220-21 21-22 exact/norm bonds : 3-11 7-8 7-9 11-12 12-13 12-14 14-19 15-16 15-19 16-17 17-18 17-2018-19 18-22 20-21 21-22 21-23 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6 isolated ring systems : containing 15 :

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:CLASS

L1 STRUCTURE UPLOADED

=> d L1 HAS NO ANSWERS L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11 full FULL SEARCH INITIATED 11:50:39 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 88 TO ITERATE

100.0% PROCESSED 88 ITERATIONS 18 ANSWERS

SEARCH TIME: 00.00.01

L2 18 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
191.54
191.76

FILE 'CAPLUS' ENTERED AT 11:50:42 ON 04 JAN 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 4 Jan 2010 VOL 152 ISS 2
FILE LAST UPDATED: 3 Jan 2010 (20100103/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 12

L3 10 L2

=> d ibib hitstr 1-10

```
L3 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2006:333374 CAPLUS
  DOCUMENT NUMBER:
                                                          144:325853
Single-step method for labeling and purifying nucleic acids in biological samples
Laayoun, Ali, Menou, Lionel; Ginot, Frederic Biomerieux, Fr.
PCT Int. Appl., 59 pp.
CODEN: PIXXD2
Patent
                                                           144:325853
  TITLE:
  INVENTOR(S):
   PATENT ASSIGNEE(S):
  SOURCE:
  DOCUMENT TYPE:
  LANGUAGE
  FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
             PATENT NO.
                                                           KIND
                                                                          DATE
                                                                                                      APPLICATION NO.
                                                                                                                                                           DATE
            WO 2006018572
                                                             A2
A3
                                                                          20060223
                                                                                                      WO 2005-FR50601
                                                                                                                                                           20050721
             EP 1778713 B1 20081231

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, 15, IT, LI, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
CN 101018801 A 20070815 CN 2005-80030012 20050721 JP 2008507263 T 20080313 JP 2007-521998 20050721 AT 419264 T 20090115 AT 2005-792074 20050721 ES 2320572 T3 20090525 ES 2005-792074 20050721 US 20080233632 A1 20080925 US 2007-658028 20070122 CRITY APPLN. INFO:: FR 2004-51632 A 20040723
  PRIORITY APPLN. INFO.:
                                                                                                                                                   W 20050721
                                                                                                      WO 2005-FR50601
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE.

OTHER SOURCE(S): MARPAT 144:325953

IT 475114-15-9

KL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(single-step method for labeling and purifying nucleic acids in biol. samples)

RN 475114-15-9 CAPLUS

CN 1H-Thleno(3,4-d)imidazole-4-pentanamide,

N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)
  ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 144:325853
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L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:1048472 CAPLUS
 DOCUMENT NUMBER:
                                            143:340586
                                            Aryldiazoalkane reagents for labeling of nucleic
                                           on phosphates and their use in de acids
Laayoun, Ali; Bernal, Mendez Eloy Biomerieux, Fr.
Fr. Demande, 52 pp.
CODEN: FRXXBL
Patent
French
1
                                            on phosphates and their use in detection of nucleic acids
 INVENTOR(S):
 PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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| | | | | | | | | | | | | | | | | | | | | |
| | FR | 2868 | 071 | | | A1 20050930 | | | 0930 | FR 2004-50600 | | | | | | 20040326 | | | | |
| | FR | 2868071 | | | | B1 200606 | | | 0609 | | | | | | | | | | | |
| | AU | U 2005225589 | | | | A1 20051006 | | | | AU 2 | 005- | | 20050324 | | | | | | | |
| | CA | 2558357 | | | | A1 | | 2005 | 1006 | | CA 2 | 005- | 2558 | 357 | | 20050324 | | | | |
| | WO | 2005092910 | | | | A1 | | 2005 | 1006 | | WO 2 | 005- | FR50 | 192 | | 21 | 0050 | 324 | | |
| | | w: | AE. | AG. | AL. | AM. | AT. | AU. | AZ. | BA. | BB. | BG. | BR. | BW. | BY. | BZ. | CA. | CH. | | |
| | | | CN. | co. | CR. | CU. | cz. | DE. | DK. | DM. | DZ. | EC. | EE. | EG. | ES. | FI. | GB. | GD. | | |
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| | | | LK. | LR. | LS. | LT. | LU. | LV. | MA. | MD. | MG. | MK. | MN. | MW. | MX. | MZ. | NA. | NI. | | |
| | | | NO. | NZ. | OM. | PG. | PH. | PL. | PT. | RO. | RU. | sc. | SD. | SE. | SG. | SK. | SL. | SM. | | |
| | | | SY. | TJ. | TM. | TN. | TR. | TT, | TZ. | UA. | UG. | US. | UZ. | vc. | VN. | YU. | ZA. | ZM. | | |
| ZW | | | | | | | | | | | | | | | | | | | | |
| | | RW: | BW. | GH, | GM, | KE. | LS. | MW, | MZ. | NA. | SD, | SL. | SZ. | TZ. | UG, | ZM. | ZW. | AM. | | |
| | | | | | | | | RU. | | | | | | | | | | | | |
| | | | EE. | ES. | FI. | FR. | GB. | GR. | HU. | IE. | IS. | IT. | LT. | LU. | MC. | NL. | PL. | PT. | | |
| | | | RO. | SE. | SI. | SK. | TR. | BF. | BJ. | CF. | CG. | CI. | CM. | GA. | GN. | GO. | GW. | ML. | | |
| | | | | | | TD. | | | | | | | | | | | | | | |
| | EP | 1727 | | | | | | 2006 | 1206 | | EP 2 | 005- | 7396 | 60 | | 20050324 | | | | |
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| | | | | | | | | MC, | | | | | | | | | | | | |
| | CN | 1938 | | | | | | | | | | | | | | | 0050 | 324 | | |
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| INSTANT | US | 2008 | 0032 | 288 | ***** | A1 | | 2008 | 0207 | ***** | US 2 | 006- | 5909 | 7.3 | | 21 | 0060 | 828 | | |
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T NT | TATEO | ***** | KKKKKK | ***** | FEFFE | KKKKKK | ***** | FR 2 | CARRES. | 5060 | KKKKKK | ***** | SERVER | 00.40 | 226 | | |

WO 2005-FR50192 W 20050324

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 143:340586
17 865724-06-7P 865724-07-8P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); FREP (Preparation); USES (Uses)
(preparation and anal. use of; aryldiazoalkane reagents for labeling of

nucleic acids on phosphates and their use in detection of nucleic

nucleic acids on phosphates and their use in detection of nuclei acids) 865724-06-7 CAPLUS Butanediamide, N1-[2-[[2-[[2-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1- coxpentyl]amino]ethyl]amino]ethyl]amino]ethyl]amino]ethyl]amino]ethyl]amino]ethyl]amino]ethyl]-N4-[3-(1-hydrazinylideneethyl)phenyl]- (CA INDEX NAME)

EXR: Michael Barker

L3 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

FORMAT

L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.
Double bond geometry unknown

PAGE 1-A

PAGE 1-B

865724-07-8 CAPLUS

NN 003/24-0-0 CAPLOS

OSTA DE CONTROL DE CARROL DE CARRO

Absolute stereochemistry.

PAGE 1-A

L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B

IT

475114-11-5P 475114-15-9P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reactions of; aryldiazoalkane reagents for labeling

nucleic acids on phosphates and their use in detection of nucleic

nucleic acids on prosphates and their use in detection of nucleic acids)
475114-11-5 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

475114-15-9 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX

Absolute stereochemistry.

L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:105978 CAPLUS
DOCUMENT NUMBER: 142:368310
TITLE: Biotin-phenyldiazomethane conjugates as labeling reagents at phosphate in mono and polynucleotides
AUTHOR(S): Bourget, Cecile; Trevisiol, Emmanuelle; Bridon, Isabelle; Kotera, Mitsuharu; Lhomme, Jean; Laayoun, Ali

LEDSS-UMR5616 associe au CNRS, BP53, Universite CORPORATE SOURCE:

Fourier, Grenoble, 38041, Fr.
Bioorganic & Medicinal Chemistry (2005), 13(5), 1453-1461
CODEN: BMECEP; ISSN: 0968-0896
Elsevier Ltd.
Journal
English
CASERACT 142:368310
475114-17-1P 475114-18-2P

COEN: RMRCEF; ISSN: 0968-0896

PUBLISHER:

DOCUMENT TYPE:
LANGUACE:
DAGINA

TYPE:
LANGUACE:
CASEACT 142:368310

T 475114-16-0-p
475114-17-1P
475114-65-9P
RI: ARG (Analytical reagent use); SFN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(blotin-phenyldiazomethane conjugates as labeling reagents at phosshate

phosphate

onate
in mono and polynucleotides for use in microarray)
475114-16-0 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

475114-17-1 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX

NAME.)

Absolute stereochemistry.

EXR: Michael Barker

L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

(1 CITINGS)
THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

475114-18-2 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

475114-65-9 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA

Absolute stereochemistry.

475114-12-6P 475114-13-7P 475114-14-8P
475114-64-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(biotin-phenyldiazomethane conjugates as labeling reagents at other

phosphate in mono and polynucleotides for use in microarray)

RN

CN

ANSWER 3 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 475114-12-6 CAPLUS 1H-Thieno [3, 4-d]imidazole-4-pentanamide, N-[4-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS, 4S, 6aR) - (CA TNDRY NNBR) INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown

475114-13-7 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

475114-14-8 CAPLUS
IH-Thieno[3,4-4]imidazole-4-pentanamide,
N-[3-(hydrazinylidenephenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)-(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 475114-64-8 CAPLUS
CN HH-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-,
(3aS,4s,6aR)(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown

OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

(1 CITINGS)
THERE ARE 27 CITED REFERENCES AVAILABLE FOR REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER:
DOCUMENT NUMBER:
140:351231
Universal Labeling Chemistry for Nucleic Acid
Detection on DNA-Arrays

AUTHOR(S):
Bernal-Mendez, E.; Tora, C.; Sothier, I.; Kotera, M.;
Troesch, A.; Laayoun, A.

CORPORATE SOURCE:
Nucleosides, Nucleotides & Nucleic Acids (2003),
22(5-8), 1647-1649
COEDN: NNNNFY; ISSN: 1525-7770
Marcel Dekker, Inc.
DOCUMENT TYPE:
LANGUAGE:
LANGUAGE:
LANGUAGE:
LANGUAGE:
LENGUAGE:
LENG

CODEN: NRNARFY; ISSN: 1525-7770

PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

T 475:114-15-9

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(universal labeling chemical for nucleic acid detection on DNA-arrays)

RN 475:114-15-9 CAPLUS

CN 1H-Thieno[3,4-d] Imidazole-4-pentanamide,

N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX

Absolute stereochemistry.

OS.CITING REF COUNT: THERE ARE 7 CAPLUS RECORDS THAT CITE THIS

(7 CITINGS)

REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L3 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2003:714244 CAPLUS

L3 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003.714244 CAPLUS
DOCUMENT NUMBER: 140:351230

Labeling During Cleavage of Nucleic Acids for Their
Detection on DNA Chips
AUTHOR(S): Laayoun, A.; Sothier, I.; Menou, L.; Bernal-Mendez,
E.; Kotera, M.; Bourget, C.; Trevisiol, E.; Lhomme,
J.; Troesch, A.
BloWerleux, Advanced Technology, Marcy l'Etoile,
F-69280, Fr.
SOURCE: Nucleosides, Nucleotides & Nucleic Acids (2003),
22(5-8), 649-652
CODEN: NNNAFY; ISSN: 1525-7770

PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
T 475114-15-9, meta-BioPMDAM
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
Chips)

chips)
475114-15-9 CAPLUS
HB-Thieno[3, 4-d]imidazole-4-pentanamide,
N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX

Absolute stereochemistry.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

(1 CITINGS)
THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2002:869122 CAPLUS

DOCUMENT NUMBER: 137:364361

TITLE: Methods for fragmenting and labeling nucleic acids

diagnosis of diseases Bourget, Cecile; Kotera, Mitsuharu; Lhomme, Jean; Trevisiol, Emmanuelle; Laayoun, Ali; Tora, INVENTOR (S):

Christelle:

Sothier, Isabelle
Bio Merieux, Fr.; Universite Joseph Fourier (Grenoble
1); Centre National De La Recherche Scientifique
PCT Int. Appl., 161 pp.
CODEN: PIXXD2
Patent
French
1 PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| | | ENT | | | | | | | | | | | | | | | | | | |
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| | WO 2002090584 | | | | | | | | | | | | | | | | | | | |
| | WO | 2002 | 0905 | 84 | | A3 | | 2003 | 0925 | | | | | | | | | | | |
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| | | | | | | | | TM, | | | | | | | | | | | | |
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| | | | GN, | GΩ, | GW, | ML, | MR, | NE, | SN, | TD, | TO | 3 | | | | | | | | |
| | FR | 2824
2444
2002
2002
2003 | 335 | | | A1 | | 2002 | 1108 | | FR | 20 | 001- | 6039 | | | 2 | 0010 | 504 | |
| | CA | 2444 | | A1 | | 2002 | 1114 | | CA | 20 | 002- | 2444 | 926 | | 2 | 0020 | 503 | | | |
| | AU | 2002 | | A1 | | 2002 | 1118 | | AU | 20 | 002- | 3130 | 26 | | 2 | 0020 | 503 | | | |
| | AU | 2002 | | B2 | | 2007 | 0628 | | | | | | | | | | | | | |
| | US | 2003 | 0143 | 555 | | A1 | | 2003 | 0731 | | US | 20 | 002- | 1374 | 60 | | 2 | 0020 | 503 | |
| | 05 | 7060 | 441 | | | DZ | | 2006 | 0612 | | | | | | | | | | | |
| | | | | | | A2 | EP 2002-738211 | | | | 11 | 2002050 | | | 503 | | | | | |
| | EP | 1383 | | | | | | | | | | | | | | | | | | |
| | | R: | | | | | | ES, | | | | | | LI, | LU, | NL, | SE, | MC, | PT, | |
| | | | IE, | SI, | LT, | LV, | FI, | RO, | MK, | CY, | ΑI | ٠, | TR | | | | | | | |
| | | 2004 | | | | | | | | | | | | | | | | | | |
| | | 1639 | | | | | | | | | CN | 20 | 002- | 3114 | 92 | | 2 | 0020 | 503 | |
| | | 1325 | | | | | | | | | | | | | | | | | | |
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| | | 2272 | | | | | | | | | | | | | | | | | | |
| | HK | 1062 | 033 | | | A1 | | 2007 | 0427 | | HK | 20 | 004- | 1051 | 11 | | 2 | 0040 | 713 | |
| PRI | ORITY | APP | LN. | INFO | . : | | | | | | FR | 20 | 001- | 6039 | | | A 2 | 0010 | 504 | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | US | 20 | 10 T - : | 3102 | 73P | | P 2 | 0010 | 807 | |
| | | | | | | | | | | | | | | | | | | | | |

ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[4-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3as,4s,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

475114-13-7 CAPLUS
IH-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

475114-14-8 CAPLUS 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-(hydrazinylidenephenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)-(CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

EXR: Michael Barker

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Contin ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 137:364361 (Continued)

ASSIGNMENT HISTORY FUK US FALUE.

OTHER SOURCE(S): MARPAT 137:364361

IT 475114-17-1P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(methods for fragmenting and labeling nucleic acids for diagnosis of

(methods for Liaguestians of the diseases)
475114-17-1 CAPLUS
HB-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

475114-11-5P 475114-12-6P 475114-13-7P
475114-18-P 475114-15-9P 475114-16-0P
475114-18-2P 475114-38-6P 475114-64-8P
475114-65-9P 475270-58-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(methods for fragmenting and labeling nucleic acids for diagnosis of diseases)
475114-11-5 CAPLUS
1H-Thieno (3, 4-4) imidazole-4-pentanamide,
N-3-(1-1) rydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS, 4S, 6aR)- (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

475114-12-6 CAPLUS

ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 475114-15-9 CAPLUS 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry

475114-16-0 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX

Absolute stereochemistry.

475114-18-2 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N=[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX

Absolute stereochemistry.

475114-38-6 CAPLUS 3,6,9,12-Tetraoxa-15-azaeicosanamide,

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

N-[3-(1-diazoethyl)phenyl]-20-[(3aS, 4S, 6aR)-hexahydro-2-oxo-1H-thieno[3, 4-d]imidazol-4-yl]-16-oxo- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

RN 475114-64-8 CAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-,
(3aS,4S,6aR)(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS

(4 CITINGS) THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

ANSWER 6 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 475114-65-9 CAPLUS 1H-Thieno [3,4-d]imidazole-4-pentanamide, N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR) - (CATNDEY NEMP) INDEX NAME)

Absolute stereochemistry.

475270-58-7 CAPLUS 3,6.9,12-Tetraoxa-15-azaeicosanamide, 20-[(3a8,46,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-y1]-N-[3-(1-hydrazinylideneethyl)phenyl]-16-oxo- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-B

PAGE 1-A

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
137:371372
Indicator dyes, their production and their use in detecting biological molecules
Bourget, Cecile; Lhomme, Jean; Laayoun, Ali; Kotera, Mitsuharu; Trevisiol, Emmanuelle; Menou, Lionel; Bernal Mendez, Eloy
PATENT ASSIGNEE(S):
Bio Merieux, Fr.; Universite Joseph Fourier (Grenoble 1); Centre National De La Recherche Scientifique
CODEN: FIXXD2
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
1
PATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| | PATENT NO. | | | | | | | | | | | | | | | | | | | |
|--------|----------------|------------------------------|------|------|-----|-----|------|-------|------|-----------------------------------|------|------|------|----------|-----|----------|------|------|-----|--|
| | | | | | | | | | | | | | | 20020503 | | | | | | |
| | | W: | AE, | AG, | AL, | AM, | AT, | AU, | AZ, | BA, | BB, | BG, | BR, | BY, | BZ, | CZ | ۱, ۱ | CH, | CN, | |
| | | | co, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | ES, | FI, | GB, | GI | , , | GE, | GH, | |
| | | | GM. | HR. | HU. | ID. | IL. | IN, | IS. | JP. | KE. | KG. | KP. | KR. | KZ. | LC | . : | LK. | LR. | |
| | | | | | | | | MD, | | | | | | | | | | | | |
| | | | | | | | | SE, | | | | | | | | | | | | |
| | | | | | | | | YU, | | | | | | | | | | | | |
| | | RW: | GH, | GM. | KE. | LS. | MW. | MZ. | SD, | SL, | SZ. | TZ. | UG, | ZM. | ZW. | A | r. : | BE, | CH, | |
| | | | | | | | | FR, | | | | | | | | | | | | |
| | | | | | | | | CM, | | | | | | | | | | | | |
| F | R | 2824 | 323 | | | A1 | | 2002 | 1108 | | FR 2 | 001- | 6040 | | | | 201 | 0105 | 504 | |
| F | TR. | 2824 | 323 | | | B1 | | 20081 | 0425 | | | | | | | | | | | |
| C | CA 2444918 | | | | | | | 2002 | 1114 | | CA 2 | 002- | 2444 | | | 201 | 0205 | 503 | | |
| 2 | AU 2002314227 | | | | | A1 | | 2002 | 1118 | CA 2002-2444918
AU 2002-314227 | | | | | | | 201 | 0205 | 503 | |
| A | AU 2002314227 | | | | | B2 | | 2008 | 0320 | | | | | | | | | | | |
| U | US 20030186448 | | | | A1 | | 2003 | 1002 | | US 2 | 002- | 1374 | 54 | | | 201 | 0205 | 503 | | |
| U | IS | 7338 | 305 | | | B2 | | 2008 | 0304 | EP 2002-740788 | | | | | | | | | | |
| E | ZР | 1383 | 732 | | | A1 | | 2004 | 0128 | EP 2002-740788 | | | | | | 20020503 | | | | |
| | | R: | | | | | | | | | | | | | | | | | | |
| | | | IE, | SI, | LT, | LV, | FI, | RO, | MK, | CY, | AL, | TR | | | | | | | | |
| C | IN | 1518
1005
2005
2009 | 536 | | | A | | 2004 | 0804 | | CN 2 | 002- | 8124 | 90 | | | 201 | 0205 | 503 | |
| C | IN | 1005 | 0976 | 1 | | C | | 2009 | 0708 | | | | | | | | | | | |
| J | ΓP | 2005 | 5020 | 27 | | т | | 2005 | 0120 | | JP 2 | 002- | 5874 | 01 | | | 201 | 0205 | 503 | |
| J | ΓP | 2009 | 1379 | 54 | | A | | 2009 | 0625 | | JP 2 | 008- | 3016 | 46 | | | 201 | 0811 | 126 | |
| PRIORI | TY | APP | LN. | INFO | . : | | | | | | FR 2 | 001- | 6040 | | | А | 201 | 0105 | 504 | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | US 2 | 001- | 3102 | 41P | | P | 20 | 0108 | 307 | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | JP 2 | 002- | 5874 | 01 | | ΑЗ | 20 | 0205 | 503 | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | wo 2 | 002- | FR15 | 43 | | W | 201 | 0205 | 503 | |
| | | | | | | | | | | | | | | | | | | | | |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S):
MARPAT 137:371372
IT 475114-11-5P 475114-12-6F 475114-13-7P
475114-14-40-8P 75114-64-8P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation);
RACT

(Reactant or reagent)
(intermediate; in production of indicator dyes for biomols. and

ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN L3 (Continued)

ANSWER / OF 10 CAPLUS COPYRIGHT 2010 ACS on SIN (Continued) acids)
475114-11-5 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

475114-12-6 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

475114-13-7 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-hydrazinylideneethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA
INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
475114-18-2P 475114-38-6P 475114-65-9P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PEP (Preparation); USES (Uses)
(prodn. of indicator dyes for biomols. and nucleic acids)
475114-15-9 CAPLUS
1H-Thieno [3,4-d] imidazole-4-pentanamide,
N-[3-(1-diazoethyl) phenyl] hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX)

Absolute stereochemistry.

475114-16-0 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3as,4s,6ar)- (CA INDEX NAME)

Absolute stereochemistry.

475114-17-1 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[2-(1-diazoethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX

Absolute stereochemistry.

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

475114-14-8 CAPLUS 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[3-(hydrazinylidenephenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)-(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

RN CN

475114-64-8 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(hydrazinylidenemethyl)-3-nitrophenyl]hexahydro-2-oxo-,

(3aS, 4S, 6aR) -(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

475114-15-9P 475114-16-0P 475114-17-1P

ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

475114-18-2 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[3-(diazophenylmethyl)phenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CA INDEX NAME)

Absolute stereochemistry.

475114-38-6 CAPLUS 3,6,9,12-Tetraoxa-15-azaeicosanamide,

N-[3-(1-diazoethy1)pheny1]-20-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-y1]-16-oxo- (CA INDEX NAME)

PAGE 1-A

Absolute stereochemistry.

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B

475114-65-9 CAPLUS
1H-Thieno[3,4-d]imidazole-4-pentanamide,
N-[4-(diazomethyl)-3-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CAINDEX NAME)

Absolute stereochemistry.

475114-24-0
RL: TEM (Technical or engineered material use); USES (Uses)
(production of indicator dyes for biomols. and nucleic acids)
475114-24-0 CAPLUS
1H-Thieno [3,4-d]imidazole-4-pentanamide,
N-[2-(diazomethyl)-5-nitrophenyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (CAINDEX NAME) IT

Absolute stereochemistry.

L3 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:745161 CAPLUS
DOCUMENT NUMBER: 123:192722
ORIGINAL REFERENCE NO.: 123:34197a,34200a
TITLE: Fluorescence detection of DNA using a novel

peroxidase

substrate, 4-(4-hydroxyphenylcarbamoyl) butanoic acid Shiga, Masanobu; Sasamoto, Kazumi; Aoyama, Masaaki; Takaqi, Makoto; Ueno, Keiyu Dojindo Laboratories, Tabaru Mashiki, Kumamoto, 861-22, Japan Analytical Sciences (1995), 11(4), 591-5 CODEN: ANSCEN; ISSN: 0910-6340 Japan Society for Analytical Chemistry Journal English AUTHOR (S):

CORPORATE SOURCE:

CODEN: ANSCEN; ISSN: 0910-6340

Japan Society for Analytical Chemistry

DCCUMENT TYPE: Journal

LANGUAGE: English

IT 151261-26-6

RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

(fluorescence detection of DNA using a novel peroxidase substrate,
4-(4-hydroxyphenylcarbamoyl)butanoic acid)

RN 151261-26-6 CAPLUS

CN 1H-Thieno (3, 4-4] Imidazole-4-pentanamide,
N-[6-[[4-(1-diazoethyl)phenyl]imino]-6-oxohexyl]hexahydro-2-oxo-,

[3aS-(3aa, 4\$\beta, 6aa)]- (9CI) (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS

(4 CITINGS)
THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

L3 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:197115 CAPLUS
DOCUMENT NUMBER: 122:27005
CRIGINAL REFERENCE NO: 122:5253a,5256a
DEtection of oxidation products in individual neurons by fluorescence microscopy
AUTHOR(S): Harris, Marni E.; Carney, John M.; Hua, Duy H.;
Leedle, Robert A.
CORPORATE SOURCE: College of Medicine, University of Kentucky,
Lexington, KY, 40536-0084, USA
Experimental Neurology (1994), 129(1), 95-102
CODEN: EXNEAC; ISSN: 0014-4886
JOURNEL LANGUAGE: English

COEN: EXNEAC; ISSN: 0014-4886

DOCUMENT TYPE: Journal
LANGUAGE: English

IT 159661-00-4

R1: BPR (Biological process); BSU (Biological study, unclassified); BUU
(Biological use, unclassified); BIOL (Biological study); PROC (Process);

USES (Uses)

(detection of oxidation products in individual neurons by fluorescence

microscopy)
microscopy)
microscopy)
microscopy)
microscopy)
microscopy)
microscopy)
microscopy
micr

Absolute stereochemistry.

OS.CITING REF COUNT: THERE ARE 9 CAPLUS RECORDS THAT CITE THIS (9 CITINGS)

L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1993:644871 CAPLUS
DOCUMENT NUMBER: 19:244871
I19:244871
I171LE: Synthesis of a novel biotin derivative that bears a diazo group as the reactive site
AUTHOR(S): Shiga, Masanobu; He, Pingang; Sagara, Fumio; Ueno, Keihei; Sasamoto, Kazumi
CORPORATE SOURCE: Dejindo Lab., Kumamoto, 861-22, Japan
Analytical Sciences (1993), 9(4), 553-6
CODEN: ANSCEN; ISSN: 0910-6340
Journal
English
OTHER SOURCE(S): CASREACT 119:244871

IT

Absolute stereochemistry.
Double bond geometry unknown.

L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS (2 CITINGS)